

AMENDMENTS TO CLAIMS:

Claims 1 through 52 (cancelled).

Claims 53 – 85 (withdrawn).

86. (currently amended) Apparatus for performing chemistry reactions in a plurality of open mouthed reaction vessels in conjunction with a liquid handler of the type having a plurality of individual liquid dispensing means arranged in a pattern, said apparatus comprising a base defining an insert-receiving space, means for sealing the mouths of the reaction vessels, said sealing means being mounted above said base, between the reaction vessels and the liquid dispensing means of the liquid handler, and comprising a sealing plate having a plurality of sealable openings, each of said sealable openings being aligned with a different one of the reaction vessels, such that liquid can be dispensed through said sealing plate into the reaction vessels from the liquid dispensing means of the liquid handler, said insert-receiving space being situated in operative registration with the liquid dispensing means of the liquid handler, and in combination therewith, first and second inserts alternatively insertable into said insert-receiving space in said base, each of said inserts comprising a plurality of individual reaction vessel-receiving recesses arranged in a different array, each of said reaction vessel-receiving recesses in each of said insert recess arrays being aligned with a different one of the liquid dispensing means of the liquid handler when the insert is received in said insert-receiving space in said base.

recesses is adapted to receive a reaction vessel with a 17 mm diameter.

94. (previously presented) The apparatus of claim 86 wherein at least one of said inserts comprises 9 vessel-receiving recesses.
95. (previously presented) The apparatus of claim 94 wherein each of said recesses is adapted to receive a reaction vessel with a 24 mm diameter.
97. (previously presented) The apparatus of claim 86 wherein at least one of said inserts comprises 6 vessel-receiving recesses.
98. (previously presented) The apparatus of claim 97 wherein each of said recesses is adapted to receive a reaction vessel with a 34 mm diameter.
99. (previously presented) The apparatus of claim 86 wherein each of said vessel-receiving recesses in each of said inserts comprises a substantially conical portion.
100. (previously presented) The apparatus of claim 86 wherein each of said vessel-receiving recesses in each of said inserts comprises a substantially semi-circular portion.
101. (previously presented) The apparatus of claim 86 wherein each of said vessel-receiving recesses in each of said inserts comprises an opening proximate the bottom of said recess.

102. (currently amended) The apparatus of claim 89 86 wherein said base comprises a temperature control fluid channel.
103. (previously presented) The apparatus of claim 102 further comprising a temperature control fluid source and means for connecting said source and said channel.
104. (previously presented) The apparatus of claim 103 further comprising a temperature control module adapted to be interposed between said plate and said base.
105. (previously presented) The apparatus of claim 86 wherein said first insert comprises a thermo-couple receiving opening.
106. (previously presented) The apparatus of claim 86 further comprising an insert extraction tool having a protrusion, wherein said first insert comprises a protrusion receiving opening.
107. (previously presented) The apparatus of claim 106 wherein said tool comprises means for changing said protrusion between an expanded state, to frictionally engage said protrusion receiving opening, and a non-expanded state, to disengage said opening.

108. (previously presented) The apparatus of claim 107 wherein said protrusion is normally in the expanded state.

109. (previously presented) The apparatus of claim 107 wherein said protrusion is normally in the non-expanded state.

110. (previously presented) The apparatus of claim 109 further comprises means for maintaining said protrusion in the non-expanded state.

111. (previously presented) The apparatus of claim 86 wherein said inserts can be inserted into said insert-receiving space in said base in only a single orientation.

112. (previously presented) The apparatus of claim 86 wherein each of said inserts comprises first and second rounded corners, each of said corners having a different radius.

113. (previously presented) The apparatus of claim 112 wherein said insert-receiving space comprises first and second rounded corners, each of said corners of said space having a radius that corresponds to the radius of a different one of said corners of each of said inserts.

114. (previously presented) The apparatus of claim 86 wherein said base comprises a wall defining said insert-receiving space and a bottom surface, said wall being inclined relative to a line perpendicular to said bottom surface of said base by a given amount.

115. (previously presented) The apparatus of claim 86 wherein each of said inserts comprises a side wall and a bottom surface, said side wall being inclined relative to a line perpendicular to said bottom surface of said insert by a given amount.

116. (cancelled) The apparatus of claim 115 wherein each of said inserts comprises a side wall and a bottom surface, said side wall being inclined relative to a line perpendicular to said bottom surface of said insert by a given amount.

117. (currently amended) The apparatus of claim ~~116~~, 115 wherein the amount of inclination of said wall of said base and the amount of inclination of said side wall of said insert are substantially equal.

118. (previously presented) The apparatus of claim 117 wherein the amount of inclination of said wall of said base and the amount of inclination of said side wall of said insert are each approximately one degree.

119. (previously amended) The apparatus of claim 86 wherein each of said inserts has a side wall with an outwardly extending lip adapted to rest on said base when said insert is received in said space.

120. (previously amended) The apparatus of claim 86 further comprising magnetic stirrer means and a magnetic stirrer bar situated within one of the reaction vessels received in one of the recesses in one of said inserts, said bar being longer than the diameter of the vessel in which said bar is received.